WEST

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Database: US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term: L21 with microparticle

Display: 10 **Documents in Display Format:** - **Starting with Number** 1

Generate: ○ Hit List ◉ Hit Count ○ Side by Side ○ Image

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Search History

DATE: Tuesday, March 25, 2003 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ			
L22	L21 with microparticle	53	L22
L21	L20 with (polymeric or polymer)	15719	L21
L20	l8 with l9	269386	L20
L19	l17 and l10	4	L19
L18	L17 same l10	0	L18
L17	metal enhancer	14	L17
L16	L15 with l14	2	L16
L15	pharmaceutical or nucleic or dna or plasmid	392539	L15
L14	L13 with l12	241	L14
L13	agent or enhancer	1568541	L13
L12	L11 with l8	3492	L12
L11	L10 with l9	31444	L11
L10	microparticle or microsphere or matrix	501377	L10
L9	suspension or solution	2048823	L9
L8	nickel or metal or copper or titanium	3245878	L8
L7	l5 and l4	1	L7
L6	L5 same l4	0	L6
L5	fusogenic	1248	L5
L4	L3 with l2 with l1	142	L4
L3	liposome or lipid or amphiphile	88902	L3
L2	encapsula$	153801	L2
L1	nanoparticle	4637	L1

END OF SEARCH HISTORY

L22: Entry 13 of 53 File: USPT Dec 31, 2002

DOCUMENT-IDENTIFIER: US 6500448 B1
TITLE: Composition for sustained release of human growth hormone

Brief Summary Text (22):
The suitability of a metal cation for stabilizing hGH can be determined by one of ordinary skill in the art by performing a variety of stability indicating techniques such as polyacrylamide gel electrophoresis, isoelectric focusing, reverse phase chromatography, HPLC and potency tests on hGH lyophilized particles containing metal cations to determine the potency of the hGH after lyophilization and for the duration of release from microparticles. In stabilized hGH, the tendency of hGH to aggregate within a microparticle during hydration in vivo and/or to lose biological activity or potency due to hydration or due to the process of forming a sustained release composition, or due to the chemical characteristics of a sustained release composition, is reduced by complexing at least one type of metal cation with hGH prior to contacting the hGH with a polymer solution.

L22: Entry 42 of 53 File: DWPI Oct 24, 2000

DERWENT-ACC-NO: 2001-255810
DERWENT-WEEK: 200126

TITLE: Preparation of catalytic microparticles involves forming microparticle electroactive polymer with reduced oxidation state and contacting with acidic solution of transition metal compound

Basic Abstract Text (1):
NOVELTY - A microparticle electroactive polymer with reduced oxidation state is contacted with acidic solution of transition metal compound for specific time, to incorporate the transition metal of higher oxidation state to the polymer. The catalytic microparticles obtained contains transition metal with oxidation state greater than 0.

Standard Title Terms (1):
PREPARATION CATALYST MICROPARTICLES FORMING MICROPARTICLES POLYMER REDUCE OXIDATION STATE CONTACT ACIDIC SOLUTION TRANSITION METAL COMPOUND

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L22: Entry 42 of 53 File: DWPI Oct 24, 2000

DERWENT-ACC-NO: 2001-255810
DERWENT-WEEK: 200126

TITLE: Preparation of catalytic microparticles involves forming microparticle electroactive polymer with reduced oxidation state and contacting with acidic solution of transition metal compound

INVENTOR: GEE, N K; LEE, T K ; TANG, K E ; WU, H S

PATENT-ASSIGNEE:

ASSIGNEE	CODE
UNIV SINGAPORE NAT	UYSIN

PRIORITY-DATA: 1998SG-0000700 (April 6, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SG 75833 A1	October 24, 2000		017	B01J031/26

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
SG 75833A1	April 6, 1998	1998SG-0000700	

INT-CL (IPC): B01 J 31/26; B01 J 37/02

ABSTRACTED-PUB-NO: SG 75833A
BASIC-ABSTRACT:

NOVELTY - A microparticle electroactive polymer with reduced oxidation state is contacted with acidic solution of transition metal compound for specific time, to incorporate the transition metal of higher oxidation state to the polymer. The catalytic microparticles obtained contains transition metal with oxidation state greater than 0.

USE - For catalyzing chemical reactions.

ADVANTAGE - The electro reduced metal ions are confined to the surface of the pre-existing polymer film. The catalytic microparticles containing electroactive polymer and transition metals with oxidation state greater than 0 is manufactured effectively.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PREPARATION CATALYST MICROPARTICLES FORMING MICROPARTICLES POLYMER REDUCE OXIDATION STATE CONTACT ACIDIC SOLUTION TRANSITION METAL COMPOUND

DERWENT-CLASS: A12 A26 A97 J04

CPI-CODES: A10-E22; A12-W11K; J04-E04;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-076917

(FILE 'HOME' ENTERED AT 15:38:45 ON 25 MAR 2003)

FILE 'MEDLINE, CANCERLIT, BIOSIS, EMBASE, CAPLUS, BIOTECHDS' ENTERED AT 15:51:35 ON 25 MAR 2003

L1	26077	S	MICROPARTICLE OR NANOPARTICLE
L2	810719	S	LIPID OR LIPOSOME
L3	89014	S	ENCAPSULA?
L4	117	S	L3 AND L2 AND L1
L5	87	DUP REM	L4 (30 DUPLICATES REMOVED)
L6	244	S	FUSOGENIC LIPOSOM?
L7	1	S	L6 AND NAN?
L8	1095894	S	SUSPENSION OR SOLUTION
L9	2206	S	L8 AND L1
L10	4609152	S	COMPOUND OR ACTIVE AGENT OR DNA OR NUCLEIC OR PLASMID
L11	3075290	S	METAL OR STEEL OR NICKEL OR COPPER
L12	248	S	L11 AND L8 AND L1
L13	237	DUP REM	L12 (11 DUPLICATES REMOVED)
L14	415934	S	PROTECT##
L15	1592964	S	ENHANCE#
L16	3813027	S	INCREASES OR INCREASED
L17	9	S	L14 AND L13
L18	9	DUP REM	L17 (0 DUPLICATES REMOVED)
L19	20	S	L15 AND L12
L20	17	DUP REM	L19 (3 DUPLICATES REMOVED)
L21	21	S	L16 AND L13
L22	335780	S	PHARMACEUTICAL
L23	60335	S	BIOLOGICALLY ACTIVE
L24	7	S	L22 AND L13
L25	1	S	L23 AND L13

L21 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2003 ACS
AN 2002:32247 CAPLUS
DN 136:264809
TI Protecting polymers in **suspension** of **metal** nanoparticles
AU Hirai, Hidefumi; Yakurat, Noboru
CS Department of Industrial Chemistry, Faculty of Engineering, Science University of Tokyo, Tokyo, 162-8601, Japan
SO Polymers for Advanced Technologies (2001), 12(11-12), 724-733
CODEN: PADTE5; ISSN: 1042-7147
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB Poly(N-vinyl-2-pyrrolidone) (PVP) was chosen as a protecting polymer for its large protective value among homopolymers. Suspensions of Pd nanoparticles were prepd. by refluxing solns. of Pd(II) chloride and PVP in methanol. The mean diam. of Pd nanoparticles without adsorbed layer of PVP was controlled in the range 1.1-2.5 nm. The concn. of free PVP in the methanol **suspension** was detd. by using aminoethylated polyacrylamide gel beads which adsorbed selectively the PVP-protected Pd nanoparticles. The amt. of PVP adsorbed on Pd nanoparticles **increased** linearly with the 0.45 power of wt.-averaged mol. wt. (Mw) of PVP. The thickness of adsorbed layer of PVP was estd. from the sedimentation coeff. of the PVP-protected Pd nanoparticles. The adsorbed layer thickness **increased** linearly with the 0.55 power of Mw of PVP. The radius of gyration of free PVP in methanol **increased** linearly also with the 0.55 power of Mw of PVP. The catalytic activity of the **suspension** of Pd nanoparticles was detd. in hydrogenation of 1,3-cyclooctadiene. The activity depended more effectively on the sp. surface area of Pd nanoparticles than the adsorbed layer thickness. On the basis of these results, the conformation of protecting PVP mol. on the surface of Pd nanoparticles was proposed.
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT